

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of transmitting in a multi-access system comprising:

detecting the start of an information segment being generated in real-time;

editing and buffering the information segment or a first representation thereof to produce a second representation; and

after transmission resources have been allocated, starting to transmit the second representation;

B2 ~~whereby~~ wherein the editing and buffering is done to compensate for transmission resource allocation delays.

Claim 2 (original): The method of claim 1 wherein editing and buffering comprises editing and then buffering.

Claim 3 (original): The method of claim 2 wherein editing is done on the information segment to produce a shortened information segment.

Claim 4 (original): The method of claim 2 wherein editing is done on the first representation which is a framed version of the information segment to produce a shortened information segment.

Claim 5 (original): The method of claim 3 wherein buffering is done on the shortened information segment to produce the second representation.

Claim 6 (original): The method of claim 3 wherein buffering is done on a frame version of the shortened information segment to produce the second representation.

Claim 7 (original): The method of claim 1 wherein buffering and editing comprises buffering and then editing.

Claim 8 (original): The method of claim 7 wherein buffering is done on the information segment to produce a buffered information segment.

Claim 9 (original): The method of claim 7 wherein buffering is done on the first representation which is a framed version of the information segment to produce a buffered information segment.

Claim 10 (original): The method of claim 8 wherein editing is done on the buffered information segment to produce a shortened information segment.

Claim 11 (original): The method of claim 8 wherein editing is done on the first representation which is a framed version of the buffered information segment to produce a shortened information segment.

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Claim 12 (original): The method of claim 1 wherein upon detecting the start of the information segment, the method further comprises immediately requesting transmission resources to transmit the information segment.

Claim 13 (original): The method of claim 6 wherein editing the information segment to produce a shortened information segment comprises time compressing the information segment.

Claim 14 (previously presented): The method of claim 13 wherein time compressing the information segment comprises removing repetitions and/or short pauses present in the segment.

Claim 15 (original): The method of claim 1 wherein before transmitting the second representation, the method further comprises passing the second representation through a frame erasure concealment unit to prevent corruption.

Claim 16 (original): The method of claim 15 wherein before transmitting the second representation, the method further comprises placing the second representation in one or more packets for transmission.

Claim 17 (cancelled)

Claim 18 (currently amended): The method of claim [[17]] 1 wherein the multi-access system is a multi-access wireless system.

Claim 19 (original): The method of claim 18 wherein the information segment is transmitted from a mobile station to a base station.

Claim 20 (original): The method of claim 19 wherein the transmission resources consist of one or more information channels.

Claim 21 (original): The method of claim 20 wherein each information channel is a radio frequency (RF) channel.

Claim 22 (original): The method of claim 1 wherein the information segment is a speech segment.

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Claim 23 (original): The method of claim 4 wherein editing the framed version of the information segment to produce a shortened information segment comprises removing redundant frames.

Claim 24 (original): The method of claim 23 wherein removing redundant frames comprises removing frames which contain repetitions and/or short pauses.

Claim 25 (original): The method of claim 24 wherein before transmitting the second representation, the method further comprises passing the second representation through a frame erasure concealment unit to prevent corruption.

Claim 26 (original): The method of claim 25 wherein before transmitting the second representation, the method further comprises placing the second representation in one or more packets for transmission.

Claim 27 (currently amended): An apparatus to transmit information in a multi-access system, the apparatus comprising:

an information detector operable to detect incoming information segments to transmit;

an information editor operable to edit each information segment detected so as to produce a respective shortened information segment;

a buffer operable to buffer each shortened information segment until transmission resources are allocated to produce a buffered information segment; and

a transmitter operable to transmit each buffered information segment.

Claim 28 (original): The apparatus of claim 27 wherein for editing each information segment detected so as to produce a respective shortened information segment, the information editor is operable to time compress each information segment.

Claim 29 (original): The apparatus of claim 27 further comprising a coder connected to the information editor and operable to code each shortened information segment into a respective plurality of frames.

B2 Claim 30 (cancelled)

Claim 31 (currently amended): A wireless transmitter comprising the apparatus of claim [[30]] 27.

Claim 32 (original): A mobile station comprising the wireless transmitter of claim 31.

Claim 33 (original): The apparatus of claim 27 wherein each information segment is a speech segment.

Claim 34 (original): The apparatus of claim 33 wherein the information detector is a voice activity detector, the information editor is a speech pause/edit unit and the coder is a speech coder.

Claim 35 (original): The apparatus of claim 34 further comprising a frame erasure concealment unit connected to receive each speech segment buffered and operable to prevent corruption before transmission.

Claim 36 (currently amended): The apparatus of claim 35 further comprising a protocol handler

connected between the frame erasure concealment unit and the transmitter, the protocol handler being operable to place each speech segment buffered in one or more packets for transmission to ~~a the second node~~.

Claim 37 (original): The apparatus of claim 27 further comprising a coder operable to code each information segment detected into a respective plurality of frames.

Claim 38 (original): The apparatus of claim 37 wherein for editing each information segment detected so as to produce a respective shortened information segment, the information editor is operable for each information segment to remove redundant frames from the respective plurality of frames.

Claim 39 (new): A method according to claim 1 comprising monitoring a state of a buffer containing the information segment or the first representation and performing the editing so that the buffer does not overflow.

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Claim 40 (new): A method according to claim 1 comprising performing the editing at least long enough to compensate for a resource acquisition time.

Claim 41 (new): A mobile station according to claim 32 wherein the information editor is adapted to monitor the state of the buffer and adapt the edit of each information segment detected so that the buffer does not overflow.

Claim 42 (new): A mobile station according to claim 32 wherein the information editor is adapted to operate at least long enough to compensate for a resource acquisition time at the mobile station.

Claim 43 (new): A method according to claim 1 comprising requesting the transmission resources from the multi-access system and receiving a resource allocation from the multi-access system after the resource allocation delays.

Claim 44 (new): A mobile station according to claim 32 wherein the information editor is further adapted to request the transmission resources from the multi-access system, the transmission resources being allocated by the multi-access system after resource allocation delays.